## WHAT IS CLAIMED IS:

| 2  | 1. A method of improving an electronic anti-shock system (EASS), in              |
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| 3  | which when PCM signals are received by the EASS, the system first processes      |
| 4  | the audio signals with high compression algorithm motion picture expert group    |
| 5  | (MPEG) to convert to audio compressed data and then save the audio data in a     |
| 6  | temporary memory, and after a certain time the system reads out the audio        |
| 7  | compressed data from the temporary memory through a decoding process with        |
| 8  | the same audio compression algorithm and restores the audio data to the original |
| 9  | PCM format, such that a data buffer is created during signal processing for a    |
| 10 | suitable buffering time, while the quality of sound reproduction can be assured. |
| 11 | 2. The method of improving EASS as claimed in claim 1, wherein the               |
| 12 | audio compression algorithm is MPEG 1.   |
| 13 | 3. The method of improving EASS as claimed in claim 1, wherein the               |
| 14 | audio compression algorithm is MPEG 2.   |
| 15 | 4. An electronic anti-shock system (EASS) comprising:                            |
| 16 | an MPEG encoder, which converts input PCM signals in the left and                |
| 17 | right channels to audio compressed data streams complying with the MPEG          |
| 18 | specifications;  |
| 19 | a memory device (DRAM), of which the input and the output are                    |
| 20 | respectively connected by a first and a second FIFO buffer, and the input of the |
| 21 | first FIFO buffer is connected to the output of the MPEG encoder;                |
| 22 | a DRAM controller, which is respectively connected with the memory               |
| 23 | device (DRAM) and two FIFO buffers to regulate the data flow to /from the        |
| 24 | Memory device (DRAM); and  |

- an MPEG decoder connected to memory device (DRAM) through the
- 2 FIFO buffer, which converts audio compressed data back to the original PCM
- 3 format for sound reproduction.
- 5. The EASS as claimed in claim 4, wherein the MPEG encoder and the
- 5 MPEG decoder adopt the MPEG 1 format.
- 6. The EASS as claimed in claim 4, wherein the MPEG encoder and
- 7 MPEG decoder adopt the MPEG 2 format.